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Engineering Report for
P-3/UWB Flight
Portage, Maine
27-28 June 1995

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Introduction

This report is written as an aid to users of the SAR data collected by the P-3/SAR on 27-28 June 1995. The data set generated consists of:

- HDDT #E1439
- HDDT #E1440
- HDDT #E1441
- HDDT #E1442
- Mission Plan disk, data, etc.
- Navigation disks
- Post Pass disks
- Post Pass Summary Sheets

The report consists of a summary of each pass with crew comments included. Users of the data should review the pass summaries to be alerted for anomalies that may have occurred during the collection or noted by processing or analysis people. The appendix contains plots of critical parameters as a function of time.

This information is provided so that users can examine, in some detail the exact time and magnitude of observed anomalies. In addition users can go back to this data to determine if there is a correlation between "funnies" observed during processing and the engineering data. For example, if there was a blank strip in the image it might correlate with the transmitter power plot showing that the transmitter was off during that time.

All of the data shown in the plots is also recorded on the HDDT's in the Aux. data block and could be reproduced by the user. These plots are included in the appendix as a convenience for users of the data. The appendix is available upon request and thus is not included with this set of data.

Results

This, the third flight of the deployment, went about as well as the previous two. Navigational accuracy over the target was fair, with many passes having a GPS cross-track error of less than .1 nautical mile (nm), and some passes having GPS cross-track errors in excess of .3 nm. Although the Navigator of the aircraft would perform a position update on the LTN-51 INS when excessive cross-track errors were observed, the INS did not always drive the GPS cross-track error to zero. Five passes were noted as "bad" due to cross-track errors in excess of .15 nm. Two of those bad passes were repeated, with one repeat pass a success. The other three passes did not have repeat attempts. The UWB Transmitter performed as well as it did on the other two flights, with occasional computer-to-transmitter communications problems, but no actual transmitter output power faults on this flight.

The target site was named the Illustrative Example (IE). The sensor flew by the target site at various aspect and depression angles. Two XLC mode passes were flown, and only the Low 509 MHz mode of the UWB system was used. This mode was run with two transmit waveform notches:

243.0 MHz center frequency, 10 dB depth
255.4 MHz center frequency, 10 dB depth

Problems Noted

- C-band Transmitter output power questionable - Passes 3 and 4-5
- X-band RMS video level low - Passes 3 and 4-5
- UWB RF drive manual attenuator not reset to 0 - 1st 30 seconds Pass 6
- UWB Transmitter to Control Computer communications problem - Pass 11
- High RFI noted by radar crew - Pass 25-26

Pass Summaries

UWB Portage, Maine Day #3
27-28 June 1995

Pass 1 Line 2

XLC synthetic target.

Pass 2 Line 7

UWB low-band, pre-TWT synthetic target.

Pass 3 Line 2

XLC mode. Target: IE + 0 degree aspect angle. This was the first of two XLC mode training passes at 13,500 ft. altitude. The X-band RMS video level on this pass appears low (ranging from 4% to 8% RMS). This could have been caused by the receive attenuator being set too high (20 dB). The C-band transmitter seems to have had some type of output power problem during the first few seconds of the pass, then appeared to operate correctly for the remainder of the pass. This looks like it was basically a good pass.

Pass 4-5 Line 4

XLC mode. Target: IE + 180 degree aspect angle. This was the second of the two training passes. The C-band transmitter again seemed to have some type of problem. RMS video level very low on the X and C-band channels, although receiver attenuation was reduced on the X-band channel from the previous pass. Both X and L-band transmitters worked well, and navigation was otherwise good.

Pass 6 Line 7

UWB Lo-509. Target: IE + 0 degree aspect angle. It appears that an RF drive manual attenuator was not reset after the Pass 2 Synthetic target was run, and output power of the UWB transmitter was lower than usual for the first 30 seconds of the pass. Then, the transmitter was shut down, the manual attenuator reset, and the transmitter powered back up. This operation took less than 10 seconds. The transmitter operated then for the remainder of the pass (about 104 seconds) at full output power. Navigation was excellent, below .02 nm for most of the pass.

Pass 7 Line 5

UWB Lo-509. Target: IE + 180 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error below .1 nm throughout pass.

Pass 8 Line 9

UWB Lo-509. Target: IE + 270 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error between .1 and .13 nm throughout the pass.

Pass 9 Line 11

UWB Lo-509. Target: IE + 90 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error below .15 nm for most of the pass.

Pass 10 Line 13

UWB Lo-509. Target: Calibration Array, Empty Cedar Swamp, Site 5. Bad pass, due to cross-track errors in excess of .15 nm throughout pass (from .15 to .2 nm during pass). A priority 1 pass which was not repeated during the flight.

Pass 11 Line 15

UWB Lo-509. Target: IE + 180 degree aspect angle. First pass at 10,000 ft. was a good one. Although the P Band Power plot shows the UWB transmitter had a problem at the start map point, the radar crew noted the problem was with the Control Computer to transmitter communications (i.e. the transmitter had not faulted) and did not attempt to reset the transmitter. Navigation was good, with a beginning cross-track error of 0 and an ending cross-track error of .14 nm.

Pass 12 Line 17

UWB Lo-509. Target: IE + 0 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error below .05 nm throughout pass.

Pass 13 Line 19

UWB Lo-509. Target: IE + 270 degree aspect angle. A fair pass due to cross-track errors between .3 nm and .15 nm during the first 25% of the pass. Cross-track error continued to decrease throughout the pass, to end at 0. No UWB transmitter faults.

Pass 14 Line 21

UWB Lo-509. Target: IE + 90 degree aspect angle. GPS cross-track error was .19 nm at the start of this pass, then decreased very rapidly so that, about 20 seconds into the pass, cross-track error was less than .15 nm (which continued to decrease throughout the pass to end up at .11 nm at end map). UWB transmitter performed without fault. Good pass.

Pass 15 Line 23

UWB Lo-509. Target: Calibration Array, Empty Cedar Swamp, Site 5. A fair pass, based on GPS cross-track error being in excess of .15 nm for about 75% of the pass. Cross-track error started out at .13 nm and increased steadily throughout the pass to end at .22 nm. UWB transmitter did not fault during the pass.

Pass 16 Line 25

UWB Lo-509. Target: IE + 30 degree aspect angle. It appears that the LTN-51 INS was updated after start map on this pass, but even that was not good enough to correct a GPS cross-track error of .3 nm (only dropped to .2 nm after update). Bad pass, which was repeated as pass 18.

Pass 17 Line 27

UWB Lo-509. Target: IE + 210 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error between .04 nm and .08 nm throughout pass.

Pass 18 Line 25

UWB Lo-509. Target: Calibration Array, Empty Cedar Swamp, Site 5. Repeat of pass 16, this time was a good one, with the UWB transmitter performing without faults and the GPS cross-track error below .13 nm for most of the pass.

Pass 19 Line 29

UWB Lo-509. Target: IE + 120 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error between .07 nm and .05 nm throughout pass.

Pass 20 Line 31

UWB Lo-509. Target: IE + 300 degree aspect angle. Bad pass, due to GPS cross-track error between .23 nm (start) and .15 nm (end) throughout pass. This pass was repeated as pass 23.

Pass 21 Line 33

UWB Lo-509. Target: IE + 60 degree aspect angle. Good pass, with the UWB transmitter performing without faults and the GPS cross-track error below .13 nm for most of the pass. The INS appears to have been updated sometime after start map.

Pass 22 Line 35

UWB Lo-509. Target: IE + 240 degree aspect angle. It appears that the LTN-51 INS was updated after start map on this pass, but even that was not good enough to correct a GPS cross-track error of .3 nm (only dropped to .2 nm after update). Bad pass, which was not repeated.

Pass 23 Line 31

UWB Lo-509. Target: IE + 300 degree aspect angle. Repeat of pass 20. Bad pass, due to GPS cross-track error between .15 nm (start) and .3 nm (end) throughout pass. Pass was not repeated again.

Pass 24 Line 41

UWB Lo-509. Target: IE + 300 degree aspect angle. First pass at 6000 ft altitude, it was a bad pass due to GPS cross-track error between .19 nm and .25 nm during pass. The radar crew noted that there was "no time to repeat" the pass.

Pass 25-26 Line 43

UWB Lo-509. Target: IE + 0 degree aspect angle. Good pass, with the UWB transmitter performing without faults and the GPS cross-track error between .02 nm and .06 nm throughout the pass. The radar crew noted "large interference on this pass", referring to RFI observed on an analog oscilloscope.

Pass 27 Line 45

UWB Lo-509. Target: IE + 270 degree aspect angle. Good pass, with the UWB transmitter performing without faults and the GPS cross-track error between .03 nm and .09 nm throughout the pass.

Pass 28 Line 47

UWB Lo-509. Target: IE + 90 degree aspect angle. Good pass, with the UWB transmitter performing without faults and the GPS cross-track error between .1 nm and .04 nm throughout the pass.

Pass 29 Line 49

UWB Lo-509. Target: Calibration Array, Empty Cedar Swamp, Site 5. Bad pass due to GPS cross-track error between .16 nm and .23 nm during pass. This was the last pass of the flight.

Mission Summaries

Differential GPS Navigation Summary for Portage, ME June 27, 1995
Xtk. and Alt. Error (feet)

	Alt. Mean	Alt. St. Dev.	Xtk. Mean	Xtk. St. Dev.
Pass 3	-3.39	18.92	-963.63	91.11
Pass 4	43.51	2.73	1390.47	201.56
Pass 5	39.46	0.04	-1458	2.72
Pass 6	55.08	2.53	-98.75	25.72
Pass 7	38.85	2.89	700.78	35.67
Pass 8	46.85	2.94	-300.11	65.84
Pass 9	48.59	2.78	404.48	72.95
Pass 10	47.06	3.45	-493.99	50.07
Pass 11	-11.15	1.89	293.17	217.39
Pass 12	-4.41	3.3	-263.95	77.06
Pass 13	-4.06	3.24	167.03	426.48
Pass 14	-3.06	2.09	27.79	88.79
Pass 15	-4.52	3.5	-616.98	95.23
Pass 16	8.52	3.25	720.54	238.09
Pass 17	3.59	4.31	604.43	20.16
Pass 18	14.13	1.7	264.29	202.94
Pass 19	19.13	2.56	-461.08	19.84
Pass 20	14.73	2.76	-456.35	152.1
Pass 21	17.63	3.02	53.9	261.51
Pass 22	6.06	2.35	-875.57	388.11
Pass 23	13.98	2.03	-887.74	349.95
Pass 24	-42.51	3.02	1361.87	97.4
Pass 25	-43.47	1.55	-369.6	69.71
Pass 26	-43.66	1.43	-376.54	69.76
Pass 27	-36.02	1.99	645.78	82.27
Pass 28	-41.03	2.27	-153.59	119.91
Pass 29	-40.4	2.1	-519.84	172.7

NORMALIZED AVE POWER LEVEL SUMMARY
(TO: Max Groundspeed & 2000 Hz)

FOR P3 FLIGHT OF 28 Jun 1995, STARTING HOUR: 3

NOTE: X and L band transmitter power levels may vary
if the gain of the RF pulse was not adusted for a
radar configuration change. Consult the Mission
Summary sheet for details.

PASS	LINE	POWER (dBm)				GNDSPD (kt)				
		X		L		C	P			
3	2	-31.4	.05	-31.2	.05	-37.3	.04	-70.0	0.00	254.5
4	4	-31.4	0.00	-31.2	0.00	-70.0	0.00	-70.0	0.00	250.7
5		-31.4	0.00	-31.2	0.00	-28.2	0.00	-70.0	0.00	252.6
6	7	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.0	.97	250.7
7	5	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.2	.05	254.4
8	9	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.2	.06	251.8
9	11	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.2	.02	252.0
10	13	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.1	.03	251.0
11	15	-70.0	0.00	-70.0	0.00	-70.0	0.00	-70.0	0.00	251.7
12	17	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.4	.04	254.9
13	19	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.8	.08	249.7
14	21	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.05	250.0
15	23	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.04	251.6
16	25	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.05	250.7
17	27	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.05	253.1
18	25	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.05	248.8
19	29	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.04	248.4
20	31	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.05	252.0
21	33	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.05	247.2
22	35	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.04	255.1
23	31	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.7	.03	247.4
24	41	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.03	249.8
25	43	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.4	0.00	251.7
26		-70.0	0.00	-70.0	0.00	-70.0	0.00	46.4	.05	251.8
27	45	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.2	.04	250.2
28	47	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.1	.04	251.6
29	49	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.0	.05	249.2
AVE:		-31.4	.02	-31.2	.02	-32.8	.02	46.6	.08	

PEAK POWER LEVEL SUMMARY

FOR P3 FLIGHT OF 28 Jun 1995, STARTING HOUR: 3

PASS	LINE	PEAK POWER (Watts)			
		X	L	C	P
----	----	-----	-----	-----	-----
3	2	2317.0	3542.9	755.5	0.0
4	4	2328.7	3565.5	0.0	0.0
5		2310.6	3537.7	6077.5	0.0
6	7	0.0	0.0	0.0	946.3
7	5	0.0	0.0	0.0	1001.7
8	9	0.0	0.0	0.0	1002.9
9	11	0.0	0.0	0.0	999.2
10	13	0.0	0.0	0.0	975.0
11	15	0.0	0.0	0.0	0.0
12	17	0.0	0.0	0.0	834.6
13	19	0.0	0.0	0.0	901.2
14	21	0.0	0.0	0.0	870.4
15	23	0.0	0.0	0.0	865.6
16	25	0.0	0.0	0.0	862.3
17	27	0.0	0.0	0.0	857.1
18	25	0.0	0.0	0.0	847.0
19	29	0.0	0.0	0.0	846.8
20	31	0.0	0.0	0.0	861.5
21	33	0.0	0.0	0.0	857.7
22	35	0.0	0.0	0.0	867.0
23	31	0.0	0.0	0.0	889.7
24	41	0.0	0.0	0.0	853.0
25	43	0.0	0.0	0.0	831.8
26		0.0	0.0	0.0	822.3
27	45	0.0	0.0	0.0	796.6
28	47	0.0	0.0	0.0	775.0
29	49	0.0	0.0	0.0	765.7
AVE:		-----	-----	-----	-----
		2318.8	3548.7	2142.8	875.2

MISSION SUMMARY FOR:

Presque Isle DAY 3

ON: 27 Jun 1995

ASS	LN #	S W A T H	R E S O P K	L O T	BRD A N T	DP S C A	ANGS D T G T	DES TRK	SAR LK	WAVE/POL CHANNEL:	1	2	3	4
	2	S	H	L	2	25.0	45 0	45.0	0	270	X HH	L HH	C HH	L VV
4-5	4	S	H	L	1	25.0	45 0	45.0	180	90	X HH	L HH	C HH	L VV
6	7	S	H	R	1	25.0	45 0	45.0	0	90	p VV	p VH	p HV	p HH
	5	S	H	R	1	25.0	45 0	45.0	180	270	p VV	p VH	p HV	p HH
	9	S	H	R	1	25.0	45 0	45.0	270	0	p VV	p VH	p HV	p HH
9	11	S	H	R	1	25.0	45 0	45.0	90	180	p VV	p VH	p HV	p HH
10	13	S	H	R	1	25.0	45 0	45.0	276	6	p VV	p VH	p HV	p HH
11	15	S	H	R	1	25.0	30 0	30.0	180	270	p VV	p VH	p HV	p HH
12	17	S	R	1		25.0	30.0	30.0	0	90	p VV	p VH	p HV	p HH
13	19	S	R	1		25.0	30.0	30.0	270	0	p VV	p VH	p HV	p HH
14	21	S	R	1		25.0	30.0	30.0	90	180	p VV	p VH	p HV	p HH
15	23	S	R	1		25.0	30.0	30.0	276	6	p VV	p VH	p HV	p HH
16	25	S	R	1		25.0	30.0	30.0	30	120	p VV	p VH	p HV	p HH
17	27	S	R	1		25.0	30.0	30.0	210	300	p VV	p VH	p HV	p HH
18	25	S	R	1		25.0	30.0	30.0	30	120	p VV	p VH	p HV	p HH
19	29	S	R	1		25.0	30.0	30.0	120	210	p VV	p VH	p HV	p HH
20	31	S	R	1		25.0	30.0	30.0	300	30	p VV	p VH	p HV	p HH
21	33	S	H	R	1	25.0	30 0	30.0	60	150	p VV	p VH	p HV	p HH
22	35	S	H	R	1	25.0	30 0	30.0	240	330	p VV	p VH	p HV	p HH
23	31	S	R	1		25.0	30.0	30.0	300	30	p VV	p VH	p HV	p HH
24	41	S	H	R	1	25.0	15 0	15.0	180	270	p VV	p VH	p HV	p HH
25-26	43	S	H	R	1	25.0	15 0	15.0	0	90	p VV	p VH	p HV	p HH
27	45	S	H	R	1	25.0	15 0	15.0	270	0	p VV	p VH	p HV	p HH
28	47	S	H	R	1	25.0	15 0	15.0	90	180	p VV	p VH	p HV	p HH
29	49	S	H	R	1	25.0	15 0	15.0	276	6	p VV	p VH	p HV	p HH

MISSION SUMMARY FOR:

Presque Isle DAY 3

ON: 27 Jun 1995

PASS(S)	LINE	HDDT	MOCOMP COUNT	UCT TIME	PASS LEN	TGT ALT
	2	E1439	0298611 - 0321127	22:36:14 - 22:38:32	(138)	770
-5	4	E1439	0353808 - 0377098	22:46:47 - 22:49:12	(145)	770
6	7	E1439	0394610 - 0421111	22:56:35 - 22:59:13	(158)	770
7	5	E1439	0452624 - 0478957	23:06:45 - 23:09:22	(157)	770
8	9	E1439	0500974 - 0528135	23:19:10 - 23:21:52	(162)	770
9	11	E1439	0558847 - 0585317	23:30:01 - 23:32:39	(158)	770
10	13	E1439	0622168 - 0649162	23:41:40 - 23:44:21	(161)	800
11	15	E1439	0667010 - 0693841	23:53:19 - 23:55:59	(160)	770
12	17	E1440	0726024 - 0751689	00:04:13 - 00:06:46	(153)	770
13	19	E1440	0784368 - 0811200	00:17:57 - 00:20:37	(160)	770
14	21	E1440	0835044 - 0861712	00:27:52 - 00:30:31	(159)	770
15	23	E1440	0893597 - 0920725	00:39:17 - 00:41:59	(162)	800
16	25	E1440	0956073 - 0983072	00:52:00 - 00:54:41	(161)	770
17	27	E1440	1010451 - 1037274	01:02:43 - 01:05:23	(160)	770
18	25	E1440	1066285 - 1093454	01:13:19 - 01:16:01	(162)	770
19	29	E1440	1131299 - 1158804	01:26:37 - 01:29:21	(164)	770
20	31	1441	1180490 - 1207494	01:36:25 - 01:39:06	(161)	770
21	33	1441	1252216 - 1279011	01:49:45 - 01:52:25	(160)	770
22	35	1441	1315361 - 1341200	02:01:48 - 02:04:22	(154)	770
23	31	1441	1366879 - 1393891	02:16:28 - 02:19:09	(161)	770
24	41	1441	1449751 - 1476593	02:38:13 - 02:40:53	(160)	770
25-26	43	1441	1501772 - 1527940	02:48:11 - 02:50:47	(156)	770
27	45	1441	1564287 - 1590796	03:02:38 - 03:05:17	(158)	770
28	47	1441	1616643 - 1643480	03:13:11 - 03:15:51	(160)	770
29	49	E1442	1670511 - 1697661	03:24:16 - 03:26:58	(162)	800

Navigation Summary Sheet
For P3 Flight of June 27 Starting at 22:36 (UCT)

Pass No	Time (UCT) (hr:mn:sc)	INS XTE		INS/GPS Lat. Dif.		INS/GPS Lon. Dif.		INS DR. RATE	
		Mean (nm)	S.D. (nm)	Mean (ft)	S.D. (ft)	Mean (ft)	S.D. (ft)	LAT (kt)	LON (kt)
3	22:36:16	-0.00	.02	-704.6	390.0	-165.1	265.9	-2.0	-1.9
4	22:46:50	-0.00	.02	853.8	495.2	-1117.8	302.0	.7	-3.6
6	22:56:35	-0.00	.02	-1276.4	448.0	62.9	75.5	.4	-.4
7	23:06:45	-.01	.03	1003.8	437.5	320.7	77.9	.7	.4
8	23:19:11	-.04	.05	635.7	279.2	1588.4	408.9	-1.9	1.2
9	23:30:05	-.06	.05	-20.7	264.3	505.0	449.0	-2.0	2.6
10	23:41:40	-.09	.03	-70.2	350.1	492.5	415.6	.1	-2.2
11	23:53:23	0.00	0.00	602.7	481.4	-478.9	323.5	2.6	-3.2
12	00:04:17	.01	.02	-720.5	531.4	-105.4	125.1	-.5	-0.0
13	00:17:58	.02	.06	1573.8	301.4	279.1	492.8	2.7	-2.4
14	00:27:52	-.05	.05	529.8	318.8	308.3	404.6	-.3	1.9
15	00:39:17	-.10	.02	-693.3	324.4	1128.9	447.7	-.2	2.8
16	00:52:03	-.12	.06	-560.8	506.7	74.8	402.9	-2.9	.9
17	01:02:47	-.08	.04	8.4	483.3	-268.7	368.8	-1.4	-1.2
18	01:13:22	-.08	.04	-775.0	473.0	-335.3	321.4	1.3	-2.0
19	01:26:37	0.00	.02	700.3	387.8	-1093.2	394.7	.4	-2.5
20	01:36:29	-.05	.06	-12.3	506.5	380.0	329.1	2.5	-1.8
21	01:49:45	-.08	.05	-235.9	466.2	-95.2	482.2	2.9	2.8
22	02:01:49	.02	.09	428.3	560.5	325.7	906.5	4.3	-9.0
23	02:16:29	-.08	.10	-633.9	437.1	778.7	700.4	-1.9	-2.6
24	02:38:14	-.07	.05	430.3	633.4	-119.2	212.2	3.5	.4
25	02:48:15	-.02	.04	-521.0	375.1	55.0	313.6	.7	-1.6
27	03:02:40	-.10	0.00	-440.3	325.9	767.6	464.8	2.2	-2.3
28	03:13:15	-.08	.05	-427.3	337.0	-101.5	357.8	-3.2	1.2
29	03:24:17	-.06	.05	-205.1	385.1	457.9	410.7	-2.5	1.7

Navigation Summary Sheet
For P3 Flight of June 27 Starting at 22:36 (UCT)

Pass No	Time (UCT) (hr:mn:sc)	GPS	XTE	Comp.	Inc.	Ang.	Baro.	Alt.	Gndspeed	
		Mean (nm)	S.D. (nm)	Mean (°)		S.D. (°)	Mean (ft)	S.D. (ft)	INS (kt)	GPS (kt)
3	22:36:16	.28	0.00	0.0		0.0	13273.3	19.5	254.5	254.2
4	22:46:50	.20	.04	0.0		0.0	13264.7	3.0	251.5	252.0
6	22:56:35	.01	0.00	0.0		0.0	13334.8	3.7	250.8	251.1
7	23:06:45	.08	.01	0.0		0.0	13266.1	3.5	254.4	254.6
8	23:19:11	-.12	.01	0.0		0.0	13313.5	3.3	251.8	254.4
9	23:30:05	.14	.01	0.0		0.0	13297.4	3.8	252.1	250.6
10	23:41:40	-.18	.01	0.0		0.0	13314.6	4.4	251.0	251.4
11	23:53:23	.07	.04	0.0		0.0	9862.1	2.3	251.7	252.4
12	00:04:17	-.03	.01	0.0		0.0	9894.3	3.8	254.9	254.4
13	00:17:58	-.11	.08	0.0		0.0	9883.2	3.7	249.8	249.4
14	00:27:52	.13	.02	0.0		0.0	9874.9	2.6	250.1	249.6
15	00:39:17	-.18	.03	0.0		0.0	9888.7	2.3	251.6	254.0
16	00:52:03	.18	.04	0.0		0.0	9900.4	2.6	250.7	252.8
17	01:02:47	.06	.01	0.0		0.0	9876.2	3.7	253.1	251.7
18	01:13:22	.10	.04	0.0		0.0	9901.2	1.7	248.8	250.2
19	01:26:37	-.05	.01	0.0		0.0	9886.3	2.2	248.4	251.4
20	01:36:29	-.18	.02	0.0		0.0	9899.8	2.4	252.1	250.7
21	01:49:45	.09	.05	0.0		0.0	9899.9	2.2	247.2	247.2
22	02:01:49	-.23	.06	0.0		0.0	9888.8	2.3	255.1	255.6
23	02:16:29	-.24	.06	0.0		0.0	9903.4	2.0	247.4	250.2
24	02:38:14	.22	.02	0.0		0.0	5940.6	2.9	249.8	250.3
25	02:48:15	-.04	.02	0.0		0.0	5948.3	2.3	251.8	250.8
27	03:02:40	.05	.02	0.0		0.0	5957.6	3.3	250.2	249.4
28	03:13:15	.05	.01	0.0		0.0	5946.8	1.9	251.6	251.9
29	03:24:17	-.18	.03	0.0		0.0	5960.7	3.8	249.2	250.6

Pre-pass Data Sheets

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 1

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:21.83	W 68:25.93				
Line-up:	N 47:01.12	W 68:25.93	Start	N 46:49.12	W 68:28.98	770 ft
Start:	N 46:49.12	W 68:25.93	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:39.12	W 68:25.93	Last	N 46:39.12	W 68:28.98	770 ft
TO:	N 30:02.59	W 68:25.93				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	4.09 ft	Alt over tgt:	12730.00 ft	Des Trk:	180.00°
Cmp Grg:	2.09 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	X HH	45.00°	45.00°	1.64 nmi
Ch 2:	L HH	45.00°	45.00°	1.64 nmi
Ch 3:	C HH	45.00°	45.00°	1.64 nmi
Ch 4:	L VV	45.00°	45.00°	1.64 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 2

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:02.59	W 68:25.93				
Line-up:	N 46:27.13	W 68:25.93	Start	N 46:39.12	W 68:28.98	770 ft
Start:	N 46:39.12	W 68:25.93	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:49.12	W 68:25.93	Last	N 46:49.12	W 68:28.98	770 ft
TO:	N 63:21.83	W 68:25.93				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	4.09 ft	Alt over tgt:	12730.00 ft	Des Trk:	0.00°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Left
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	-90.00°	End Squint:	-90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	X HH	45.00°	45.00°	1.64 nmi
Ch 2:	L HH	45.00°	45.00°	1.64 nmi
Ch 3:	C HH	45.00°	45.00°	1.64 nmi
Ch 4:	L VV	45.00°	45.00°	1.64 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 3

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:02.59	W 68:32.03				
Line-up:	N 46:27.13	W 68:32.03	Start	N 46:39.12	W 68:28.98	770 ft
Start:	N 46:39.12	W 68:32.03	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:49.12	W 68:32.03	Last	N 46:49.12	W 68:28.98	770 ft
TO:	N 63:21.83	W 68:32.03				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	4.11 ft	Alt over tgt:	12730.00 ft	Des Trk:	0.00°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	X HH	45.00°	45.00°	1.64 nmi
Ch 2:	L HH	45.00°	45.00°	1.64 nmi
Ch 3:	C HH	45.00°	45.00°	1.64 nmi
Ch 4:	L VV	45.00°	45.00°	1.64 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 4

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:21.83	W 68:32.03				
Line-up:	N 47:01.12	W 68:32.03	Start	N 46:49.12	W 68:28.98	770 ft
Start:	N 46:49.12	W 68:32.03	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:39.12	W 68:32.03	Last	N 46:39.12	W 68:28.98	770 ft
TO:	N 30:02.59	W 68:32.03				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	4.09 ft	Alt over tgt:	12730.00 ft	Des Trk:	180.00°
Cmp Grg:	2.09 nmi	Ant Dep ang:	25.00°	Look:	Left
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	-90.00°	End Squint:	-90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	X HH	45.00°	45.00°	1.64 nmi
Ch 2:	L HH	45.00°	45.00°	1.64 nmi
Ch 3:	C HH	45.00°	45.00°	1.64 nmi
Ch 4:	L VV	45.00°	45.00°	1.64 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 5

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:21.83	W 68:25.93	No.			
Line-up:	N 47:01.12	W 68:25.93	Start	N 46:49.12	W 68:28.98	770 ft
Start:	N 46:49.12	W 68:25.93	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:39.12	W 68:25.93	Last	N 46:39.12	W 68:28.98	770 ft
TO:	N 30:02.59	W 68:25.93				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	4.09 ft	Alt over tgt:	12730.00 ft	Des Trk:	180.00°
Cmp Grg:	2.09 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presume

Chirp File Parameters:

Transmit Chirp File: CRL1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1)	1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB
2)	1 MHz Bandwidth Centered @	406 MHz, Depth @	9.3 dB

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	45.00°	45.00°	2.71 nmi
Ch 2:	p VH	45.00°	45.00°	2.71 nmi
Ch 3:	p HV	45.00°	45.00°	2.71 nmi
Ch 4:	p HH	45.00°	45.00°	2.71 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 7

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:02.59	W 68:32.03	No.			
Line-up:	N 46:27.13	W 68:32.03	Start	N 46:39.12	W 68:28.98	770 ft
Start:	N 46:39.12	W 68:32.03	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:49.12	W 68:32.03	Last	N 46:49.12	W 68:28.98	770 ft
TO:	N 63:21.83	W 68:32.03				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	4.11 ft	Alt over tgt:	12730.00 ft	Des Trk:	0.00°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	45.00°	45.00°	2.71 nmi
Ch 2:	p VH	45.00°	45.00°	2.71 nmi
Ch 3:	p HV	45.00°	45.00°	2.71 nmi
Ch 4:	p HH	45.00°	45.00°	2.71 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 9

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 44:13.17	W 44:58.54	No.	N 46:44.11	W 68:21.71	770 ft
Line-up:	N 46:41.98	W 68:04.28	Start	N 46:44.11	W 68:21.71	770 ft
Start:	N 46:42.02	W 68:21.71	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:42.02	W 68:36.25	Last	N 46:44.12	W 68:36.25	770 ft
TO:	N 44:13.17	W 91:59.42				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	19.53 ft	Alt over tgt:	12730.00 ft	Des Trk:	270.09°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CRL1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	45.00°	45.00°	2.71 nmi
Ch 2:	p VH	45.00°	45.00°	2.71 nmi
Ch 3:	p HV	45.00°	45.00°	2.71 nmi
Ch 4:	p HH	45.00°	45.00°	2.71 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 11

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 44:17.01	W 92:01.04				
Line-up:	N 46:46.17	W 68:53.71	Start	N 46:44.11	W 68:36.25	770 ft
Start:	N 46:46.21	W 68:36.25	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:46.21	W 68:21.71	Last	N 46:44.12	W 68:21.71	770 ft
TO:	N 44:17.01	W 44:56.92				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	19.55 ft	Alt over tgt:	12730.00 ft	Des Trk:	89.91°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum0

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	45.00°	45.00°	2.71 nmi
Ch 2:	p VH	45.00°	45.00°	2.71 nmi
Ch 3:	p HV	45.00°	45.00°	2.71 nmi
Ch 4:	p HH	45.00°	45.00°	2.71 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 13

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: CALCS

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 42:36.03	W 45:45.85				
Line-up:	N 46:40.39	W 68:04.74	Start	N 46:43.76	W 68:21.75	800 ft
Start:	N 46:41.68	W 68:22.07	Main	N 46:44.29	W 68:28.98	800 ft
End:	N 46:42.73	W 68:36.53	Last	N 46:44.81	W 68:36.21	800 ft
TO:	N 45:53.35	W 92:35.40				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	18.32 ft	Alt over tgt:	12700.00 ft	Des Trk:	276.08°
Cmp Grg:	2.09 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12700.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgtDlt:	0.00 ft	Adjnd Scene:	5000.00 ft		

Pre-processor mode: Presum

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	45.00°	45.00°	2.70 nmi
Ch 2:	p VH	45.00°	45.00°	2.70 nmi
Ch 3:	p HV	45.00°	45.00°	2.70 nmi
Ch 4:	p HH	45.00°	45.00°	2.70 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 15

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:21.83	W 68:25.15	No.	N 46:49.12	W 68:28.98	770 ft
Line-up:	N 47:01.12	W 68:25.15	Start	N 46:49.12	W 68:28.98	770 ft
Start:	N 46:49.12	W 68:25.15	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:39.12	W 68:25.15	Last	N 46:39.12	W 68:28.98	770 ft
TO:	N 30:02.59	W 68:25.15				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	6.45 ft	Alt over tgt:	9230.00 ft	Des Trk:	180.00°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 17

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:02.59	W 68:32.80				
Line-up:	N 46:27.13	W 68:32.80	Start	N 46:39.12	W 68:28.98	770 ft
Start:	N 46:39.12	W 68:32.80	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:49.12	W 68:32.80	Last	N 46:49.12	W 68:28.98	770 ft
TO:	N 63:21.83	W 68:32.80				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	6.45 ft	Alt over tgt:	9230.00 ft	Des Trk:	0.00°
Cmp Grg:	2.64 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CML1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 19

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 44:12.68	W 44:58.75				
Line-up:	N 46:41.44	W 68:04.28	Start	N 46:44.11	W 68:21.71	770 ft
Start:	N 46:41.48	W 68:21.71	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:41.48	W 68:36.25	Last	N 46:44.12	W 68:36.25	770 ft
TO:	N 44:12.68	W 91:59.21				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	24.52 ft	Alt over tgt:	9230.00 ft	Des Trk:	270.09°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CML1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

Ch	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 21

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 44:17.50	W 92:01.25				
Line-up:	N 46:46.70	W 68:53.71	Start	N 46:44.11	W 68:36.25	770 ft
Start:	N 46:46.74	W 68:36.25	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:46.74	W 68:21.71	Last	N 46:44.12	W 68:21.71	770 ft
TO:	N 44:17.50	W 44:56.71				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	24.55 ft	Alt over tgt:	9230.00 ft	Des Trk:	89.91°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presume

Chirp File Parameters:

Transmit Chirp File: CML1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

Ch	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 23

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: CALCS

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 42:35.56	W 45:46.11				
Line-up:	N 46:39.86	W 68:04.82	Start	N 46:43.76	W 68:21.75	800 ft
Start:	N 46:41.15	W 68:22.15	Main	N 46:44.29	W 68:28.98	800 ft
End:	N 46:42.20	W 68:36.61	Last	N 46:44.81	W 68:36.21	800 ft
TO:	N 45:52.85	W 92:35.25				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	22.72 ft	Alt over tgt:	9200.00 ft	Des Trk:	276.08°
Cmp Grg:	2.62 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9200.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.03 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CML1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

Ch	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.78 nmi
Ch 2:	p VH	30.00°	30.00°	2.78 nmi
Ch 3:	p HV	30.00°	30.00°	2.78 nmi
Ch 4:	p HH	30.00°	30.00°	2.78 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 25

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 31:49.89	W 78:14.04				
Line-up:	N 46:30.71	W 68:44.60	Start	N 46:39.80	W 68:32.62	770 ft
Start:	N 46:41.11	W 68:35.93	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:49.77	W 68:28.66	Last	N 46:48.45	W 68:25.33	770 ft
TO:	N 60:12.77	W 51:51.23				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	1.65 ft	Alt over tgt:	9230.00 ft	Des Trk:	29.95°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CRL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 27

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 60:10.02	W 51:45.39				
Line-up:	N 46:57.51	W 68:13.24	Start	N 46:48.45	W 68:25.33	770 ft
Start:	N 46:47.13	W 68:22.02	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:38.47	W 68:29.28	Last	N 46:39.80	W 68:32.62	770 ft
TO:	N 31:47.42	W 78:07.50				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	1.68 ft	Alt over tgt:	9230.00 ft	Des Trk:	210.05°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CML1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 29

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 52:47.33	W 92:35.12				
Line-up:	N 46:54.86	W 68:48.54	Start	N 46:46.61	W 68:35.29	770 ft
Start:	N 46:48.89	W 68:33.37	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:43.89	W 68:20.78	Last	N 46:41.63	W 68:22.68	770 ft
TO:	N 36:51.34	W 50:24.96				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	11.97 ft	Alt over tgt:	9230.00 ft	Des Trk:	119.94°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgtDlt:	0.00 ft	Adjnd Scene:	5000.00 ft		

Pre-processor mode: Presum

Chirp File Parameters:

Transmit Chirp File: CML1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 31

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 36:47.45	W 50:29.32				
Line-up:	N 46:33.32	W 68:09.55	Start	N 46:41.62	W 68:22.69	770 ft
Start:	N 46:39.35	W 68:24.60	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:44.34	W 68:37.19	Last	N 46:46.62	W 68:35.28	770 ft
TO:	N 52:42.60	W 92:36.70				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	11.89 ft	Alt over tgt:	9230.00 ft	Des Trk:	300.06°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum

Chirp File Parameters:

Transmit Chirp File: CML1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

Ch	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 33

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 36:51.35	W 86:33.02	No.			
Line-up:	N 46:37.87	W 68:52.25	Start	N 46:41.62	W 68:35.27	770 ft
Start:	N 46:43.90	W 68:37.18	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:48.90	W 68:24.59	Last	N 46:46.62	W 68:22.68	770 ft
TO:	N 52:47.34	W 44:22.84				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	19.98 ft	Alt over tgt:	9230.00 ft	Des Trk:	59.91°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presume

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

Ch	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 35

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 52:42.59	W 44:21.25	No.			
Line-up:	N 46:50.30	W 68:05.61	Start	N 46:46.61	W 68:22.67	770 ft
Start:	N 46:44.33	W 68:20.76	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:39.33	W 68:33.35	Last	N 46:41.63	W 68:35.28	770 ft
TO:	N 36:47.44	W 86:28.63				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	20.01 ft	Alt over tgt:	9230.00 ft	Des Trk:	240.09°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 37

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 60:12.77	W 85:06.75				
Line-up:	N 47:00.14	W 68:38.09	Start	N 46:48.45	W 68:32.63	770 ft
Start:	N 46:49.76	W 68:29.32	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:41.10	W 68:22.05	Last	N 46:39.80	W 68:25.34	770 ft
TO:	N 31:49.89	W 58:43.93				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	4.49 ft	Alt over tgt:	9230.00 ft	Des Trk:	149.97°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 39

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 31:47.43	W 58:50.45				
Line-up:	N 46:28.08	W 68:19.99	Start	N 46:39.80	W 68:25.34	770 ft
Start:	N 46:38.48	W 68:28.66	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:47.14	W 68:35.93	Last	N 46:48.45	W 68:32.62	770 ft
TO:	N 60:10.03	W 85:12.55				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	4.48 ft	Alt over tgt:	9230.00 ft	Des Trk:	330.03°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	30.00°	30.00°	2.79 nmi
Ch 2:	p VH	30.00°	30.00°	2.79 nmi
Ch 3:	p HV	30.00°	30.00°	2.79 nmi
Ch 4:	p HH	30.00°	30.00°	2.79 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 41

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:21.83	W 68:24.31				
Line-up:	N 47:01.12	W 68:24.31	Start	N 46:49.12	W 68:28.98	770 ft
Start:	N 46:49.12	W 68:24.31	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:39.12	W 68:24.31	Last	N 46:39.12	W 68:28.98	770 ft
TO:	N 30:02.59	W 68:24.31				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	9.62 ft	Alt over tgt:	5230.00 ft	Des Trk:	180.00°
Cmp Grg:	3.21 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.33 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.07 nmi
Ch 2:	p VH	15.00°	15.00°	3.07 nmi
Ch 3:	p HV	15.00°	15.00°	3.07 nmi
Ch 4:	p HH	15.00°	15.00°	3.07 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 43

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:02.59	W 68:33.65	No.			
Line-up:	N 46:27.13	W 68:33.65	Start	N 46:39.12	W 68:28.98	770 ft
Start:	N 46:39.12	W 68:33.65	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:49.12	W 68:33.65	Last	N 46:49.12	W 68:28.98	770 ft
TO:	N 63:21.83	W 68:33.65				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	9.62 ft	Alt over tgt:	5230.00 ft	Des Trk:	0.00°
Cmp Grg:	3.22 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slr rng:	3.33 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRM1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.07 nmi
Ch 2:	p VH	15.00°	15.00°	3.07 nmi
Ch 3:	p HV	15.00°	15.00°	3.07 nmi
Ch 4:	p HH	15.00°	15.00°	3.07 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 45

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 44:12.15	W 44:58.97				
Line-up:	N 46:40.86	W 68:04.28	Start	N 46:44.11	W 68:21.71	770 ft
Start:	N 46:40.90	W 68:21.71	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:40.90	W 68:36.25	Last	N 46:44.12	W 68:36.25	770 ft
TO:	N 44:12.15	W 91:58.99				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	29.93 ft	Alt over tgt:	5230.00 ft	Des Trk:	270.09°
Cmp Grg:	3.21 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.33 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.07 nmi
Ch 2:	p VH	15.00°	15.00°	3.07 nmi
Ch 3:	p HV	15.00°	15.00°	3.07 nmi
Ch 4:	p HH	15.00°	15.00°	3.07 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 47

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 44:18.04	W 92:01.47				
Line-up:	N 46:47.28	W 68:53.71	Start	N 46:44.11	W 68:36.25	770 ft
Start:	N 46:47.33	W 68:36.25	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:47.33	W 68:21.71	Last	N 46:44.12	W 68:21.71	770 ft
TO:	N 44:18.04	W 44:56.49				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	29.98 ft	Alt over tgt:	5230.00 ft	Des Trk:	89.91°
Cmp Grg:	3.21 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.33 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CRL1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.07 nmi
Ch 2:	p VH	15.00°	15.00°	3.07 nmi
Ch 3:	p HV	15.00°	15.00°	3.07 nmi
Ch 4:	p HH	15.00°	15.00°	3.07 nmi

Pre-pass Data Sheet

Date: 6/27/95

Line No.: 49

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: CALCS

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 42:35.05	W 45:46.39				
Line-up:	N 46:39.29	W 68:04.91	Start	N 46:43.76	W 68:21.75	800 ft
Start:	N 46:40.59	W 68:22.23	Main	N 46:44.29	W 68:28.98	800 ft
End:	N 46:41.63	W 68:36.69	Last	N 46:44.81	W 68:36.21	800 ft
TO:	N 45:52.31	W 92:35.10				

Tgt Trk: 0.0° Vel: 0.0 knots

Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	27.31 ft	Alt over tgt:	5200.00 ft	Des Trk:	276.08°
Cmp Grg:	3.19 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5200.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.31 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: PresumG

Chirp File Parameters:

Transmit Chirp File: CML1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRL1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV	15.00°	15.00°	3.05 nmi
Ch 2:	p VH	15.00°	15.00°	3.05 nmi
Ch 3:	p HV	15.00°	15.00°	3.05 nmi
Ch 4:	p HH	15.00°	15.00°	3.05 nmi

Post-pass Data Sheets

27 Jun 1995
Tape: E1439

Post-line Data Sheet
Line 2
Mission: Presque Isle DAY 3

Time: 178:22:36:14
Pass 3
Req.# 1

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	X-HH	L-HH	C-HH	L-VV
Baro:	13273 ft s.d = 19	Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Left	St rng (ft):	9947	9947	9947	9947
Depr Ang:	25.0°	Near Rng Dep:	90.0°	90.0°	90.0°	90.0°
Des. trk:	0.0°	Far Rng Dep:	30.6°	30.6°	30.6°	30.6°
Start Sq:	-90.0°	Atten (dB):	20.0	35.0	18.0	35.0
End Sq:	-90.0°	RMS Video (%FS)	7.0	27.5	24.2	26.8

WAYPOINTS

Line up:	N 46:27.13	W 68:25.93	Main Target:	IE
Start:	N 46:39.12	W 68:25.93	Mocomp Point:	
End:	N 46:49.12	W 68:25.93	Lat:	N 46:44.12
			Long:	W 68:28.98
From:	N 30:02.59	W 68:25.93	Tgt Trk:	0.0
To:	N 63:21.83	W 68:25.93	Tgt Vel:	0.0
			Alt:	770.0 ft

RADAR PARAMETERS - for XMC

RTP Channel: 2	Filter damping is Hi -> 10 sec
Resolution: High	PRF Factor is FAST (262.5 kts)
Swath width: Single	Ave Gndspd: Real -> 254.5 kts
RMS Time Constant: 2^7	Mocomp On
Position Reference: ON	GPS Vel/Pos Reference
Atten. Tracking: OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta: 0.0 ft	Range Tracking is OFF
Azimuth Presum Rate: Presum6	Clutterlock Reference: OFF
Ave Ref Vel -> -1.1 fps (s.d.= 1.2)	
Ave Fil Vel -> .2 fps (s.d.= 1.0)	

NML XMIT PWR	ANG BIAS	Tape Footage	Drive no.
X: -31.4	Elevation: 0.0°	Starting: 472 ft	(1)
L: -31.2	Azimuth: 0.0°	Ending: 1535 ft	(1)
C: -37.3	Pitch: 0.0°		
P: -70.0			

Vel Bias	CAN Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 22:36:14
Y: -463.0	L: 63.8 dB	End: 22:38:32
Z: 6435.0	C: 63.8 dB	

Mocomp Counters

Start:	298611	00048E73h	CPA (UCT): 00:00:00
End:	321127	00048E67h	Alt: 0 ft (GPS)
			Lat: N 0:00: 0
			Lon: E 0:00: 0

27 Jun 1995
Tape: E1439

Post-line Data Sheet
Line 4
Mission: Presque Isle DAY 3

Time: 178:22:46:47
Pass 4
Req.# 2

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	X-HH	L-HH	C-HH	L-VV
Baro:	13264 ft s.d =	2 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Left	St rng (ft):	9947	9947	9947	9947
Depr Ang:	25.0°	Near Rng Dep:	90.0°	90.0°	90.0°	90.0°
Des. trk:	180.0°	Far Rng Dep:	30.6°	30.6°	30.6°	30.6°
Start Sq:	-90.0°	Atten (dB):	18.0	35.0	18.0	35.0
End Sq:	-90.0°	RMS Video (%FS)	9.1	26.9	3.2	26.9

WAYPOINTS

	Latitude	Longitude
Line_up:	N 47:01.12	W 68:32.03
Start:	N 46:49.12	W 68:32.03
End:	N 46:39.12	W 68:32.03
From:	N 63:21.83	W 68:32.03
To:	N 30:02.59	W 68:32.03

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for XMC

RTP Channel: 1
Resolution: High
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.7 kts
Mocomp On
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF

Ave Ref Vel -> 4.3 fps (s.d.= .8)
Ave Fil Vel -> 6.2 fps (s.d.= .7)

NML XMIT PWR

ANG BIAS

Tape Footage

Drive no.

X: -31.4	Elevation:	0.0°
L: -31.2	Azimuth:	0.0°
C: -70.0	Pitch:	0.0°
P: -70.0		

Starting: 1548 ft (1)
Ending: 2615 ft (1)

Vel Bias	CAL Atten
X: 1024.0	X: 63.8 dB
Y: -463.0	L: 63.8 dB
Z: 6435.0	C: 63.8 dB

LINE Map Time (UCT)

Start: 22:46:47
End: 22:49:12

Mocomp Counters

CPA (UCT): 00:00:00

Start: 353808 00056610h
End: 367315 00059AD3h

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1439

Post-line Data Sheet
Line 4
Mission: Presque Isle DAY 3

Time: 178:22:48:11
Pass 5
Req.# 2

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	X-HH	L-HH	C-HH	L-VV
Baro:	13266 ft s.d = 3	Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Left	St rng (ft):	9947	9947	9947	9947
Depr Ang:	25.0°	Near Rng Dep:	90.0°	90.0°	90.0°	90.0°
Des. trk:	180.0°	Far Rng Dep:	30.6°	30.6°	30.6°	30.6°
Start Sq:	-90.0°	Atten (dB):	18.0	35.0	15.0	35.0
End Sq:	-90.0°	RMS Video (%FS)	9.3	28.4	4.7	27.1

WAYPOINTS

	Latitude	Longitude
Line up:	N 47:01.12	W 68:32.03
Start:	N 46:49.12	W 68:32.03
End:	N 46:39.12	W 68:32.03
From:	N 63:21.83	W 68:32.03
To:	N 30:02.59	W 68:32.03

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for XLC

RTP Channel: 1
Resolution: High
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 252.6 kts
Mocomp On
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF

Ave Ref Vel -> 3.4 fps (s.d.= .5)
Ave Fil Vel -> 5.4 fps (s.d.= .4)

NML XMIT PWR

X: -31.4	Elevation:	0.0°
L: -31.2	Azimuth:	0.0°
C: -28.2	Pitch:	0.0°
P: -70.0		

Tape Footage

Drive no.

Starting: 1548 ft (1)
Ending: 2615 ft (1)

Vel Bias

X: 1024.0	CAL Atten
Y: -463.0	X: 63.8 dB
Z: 6435.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 22:48:11
End: 22:49:12

Mocomp Counters

Start: 367315 00059AD3h
End: 377098 0005010Ah

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

27 Jun 1995
Tape: E1439

Post-line Data Sheet
Line 7
Mission: Presque Isle DAY 3

Time: 178:22:56:35
Pass 6
Req.# 4

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13334 ft s.d =	4 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16466	16466	16466	16466
Depr Ang:	25.0°	Near Rng Dep:	54.1°	54.1°	54.1°	54.1°
Des. trk:	0.0°	Far Rng Dep:	24.2°	24.2°	24.2°	24.2°
Start Sq:	90.0°	Atten (dB):	55.0	66.0	54.0	63.0
End Sq:	90.0°	RMS Video (%FS)	19.0	12.5	16.4	14.7

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:27.13	W 68:32.03
Start:	N 46:39.12	W 68:32.03
End:	N 46:49.12	W 68:32.03
From:	N 30:02.59	W 68:32.03
To:	N 63:21.83	W 68:32.03

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .6 fps (s.d.= 1.0)
Ave Fil Vel -> 1.8 fps (s.d.= .8)

NML XMIT PWR	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 47.0	

Tape Footage	Drive no.
Starting: 2630 ft	(1)
Ending: 3873 ft	(1)

Vel Bias	CAN Atten
X: 1024.0	X: 63.8 dB
Y: -463.0	L: 63.8 dB
Z: 6435.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 22:56:35
End: 22:59:13

Mocomp Counters

Start: 394610 00060572h
End: 421111 000606CF7h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00:0
Lon: E 0:00:0

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Tape: E1439

Post-line Data Sheet
Line 5
Mission: Presque Isle DAY 3

Time: 178:23:06:45
Pass 7
Req.# 3

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13266 ft s.d =	4 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16466	16466	16466	16466
Depr Ang:	25.0°	Near Rng Dep:	53.7°	53.7°	53.7°	53.7°
Des. trk:	180.0°	Far Rng Dep:	24.0°	24.0°	24.0°	24.0°
Start Sq:	90.0°	Atten (dB):	51.0	64.0	50.0	61.0
End Sq:	90.0°	RMS Video (%FS)	29.0	13.2	24.3	16.9

WAYPOINTS

	Latitude	Longitude
Line_up:	N 47:01.12	W 68:25.93
Start:	N 46:49.12	W 68:25.93
End:	N 46:39.12	W 68:25.93
From:	N 63:21.83	W 68:25.93
To:	N 30:02.59	W 68:25.93

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 254.4 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 1.6 fps (s.d.= 1.2)
Ave Fil Vel -> 2.2 fps (s.d.= .9)

NML XMIT PWR

	ANAL BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 47.2	

Tape Footage

Drive no.

Starting: 3888 ft (1)
Ending: 5113 ft (1)

Vel Bias

X: 1024.0	CAL Atten
Y: -463.0	X: 63.8 dB
Z: 6435.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 23:06:45
End: 23:09:22

Mocomp Counters

Start: 452624 00061810h
End: 478957 00074EEDh

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1439

Post-line Data Sheet
Line 9
Mission: Presque Isle DAY 3

Time: 178:23:19:10
Pass 8
Req.# 5

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13314 ft s.d = 3	Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16466	16466	16466	16466
Depr Ang:	25.0°	Near Rng Dep:	54.0°	54.0°	54.0°	54.0°
Des. trk:	270.0°	Far Rng Dep:	24.1°	24.1°	24.1°	24.1°
Start Sq:	90.0°	Atten (dB):	54.0	64.0	55.0	61.0
End Sq:	90.0°	RMS Video (%FS)	25.8	22.4	18.5	19.6

WAYPOINTS

Line_up:	N 46:41.98	W 68:04.28	Main Target:	IE
Start:	N 46:42.02	W 68:21.71	Mocomp Point:	
End:	N 46:42.02	W 68:36.25	Lat:	N 46:44.12
			Long:	W 68:28.98
From:	N 44:13.17	W 44:58.54	Tgt Trk:	0.0
To:	N 44:13.17	W 91:59.42	Tgt Vel:	0.0
			Alt:	770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi	->	10 sec	
Resolution:	N/A	PRF Factor is FAST	(262.5 kts)		
Swath width:	Single	Ave Gndspd:	Real	->	251.8 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl	1, 2, 3, 4		
Position Reference:	ON	GPS Vel/Pos Reference			
Atten. Tracking:	OFF	Adj Gnd Scene:	5000.0 ft		
Range Gate Delta:	0.0 ft	Range Tracking is	OFF		
Azimuth Presum Rate:	Presum6	Clutterlock Reference:	OFF		
TX Chirp Filename:	CTL0U2B	RX Chirp Filename:	CRL1N0A		

Ave Ref Vel -> .9 fps (s.d.= 1.1)
Ave Fil Vel -> 2.4 fps (s.d.= .9)

NML XMIT PWR	ANG BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting:	5128 ft (1)
L: -70.0	Azimuth: 0.0°	Ending:	6384 ft (1)
C: -70.0	Pitch: 0.0°		
P: 47.2			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 23:19:10
Y: -463.0	L: 63.8 dB	End: 23:21:52
Z: 6435.0	C: 63.8 dB	

Mocomp Counters

Start:	500974	0007A4EEh	CPA (UCT):	00:00:00
End:	528135	00080F07h	Alt:	0 ft (GPS)
			Lat:	N 0:00: 0
			Lon:	E 0:00: 0

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Tape: E1439

Post-line Data Sheet
Line 11
Mission: Presque Isle DAY 3

Time: 178:23:30:01
Pass 9
Req.# 6

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13297 ft s.d =	4 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16466	16466	16466	16466
Depr Ang:	25.0°	Near Rng Dep:	53.9°	53.9°	53.9°	53.9°
Des. trk:	90.0°	Far Rng Dep:	24.1°	24.1°	24.1°	24.1°
Start Sq:	90.0°	Atten (dB):	54.0	67.0	55.0	63.0
End Sq:	90.0°	RMS Video (%FS)	24.1	11.8	16.3	15.9

WAYPOINTS

Line up:	N 46:46.17	W 68:53.71	Main Target:	IE
Start:	N 46:46.21	W 68:36.25	Mocomp Point:	
End:	N 46:46.21	W 68:21.71	Lat:	N 46:44.12
			Long:	W 68:28.98
From:	N 44:17.01	W 92:01.04	Tgt Trk:	0.0
To:	N 44:17.01	W 44:56.92	Tgt Vel:	0.0
			Alt:	770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi	->	10 sec
Resolution:	N/A	PRF Factor is FAST	(262.5 kts)	
Swath width:	Single	Ave Gndspd:	Real	-> 252.0 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl	1, 2, 3, 4	
Position Reference:	ON	GPS Vel/Pos Reference		
Atten. Tracking:	OFF	Adj Gnd Scene:	5000.0 ft	
Range Gate Delta:	0.0 ft	Range Tracking is	OFF	
Azimuth Presum Rate:	Presum6	Clutterlock Reference:	OFF	
TX Chirp Filename:	CTL0U2B	RX Chirp Filename:	CRL1N0A	

Ave Ref Vel -> .4 fps (s.d.= 2.3)
Ave Fil Vel -> .7 fps (s.d.= 2.0)

NML XMIT PWR	ANG BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 6399 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 7645 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 47.2			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 23:30:01
Y: -463.0	L: 63.8 dB	End: 23:32:39
Z: 6435.0	C: 63.8 dB	

Mocomp Counters

Start:	558847	000886FFh	CPA (UCT):	00:00:00
End:	585317	00088E65h	Alt:	0 ft (GPS)
			Lat:	N 0:00:0
			Lon:	E 0:00:0

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Tape: E1439

Post-line Data Sheet
Line 13
Mission: Presque Isle DAY 3

Time: 178:23:41:40
Pass 10
Req.# 7

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13315 ft s.d =	5 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	17961 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16424	16424	16424	16424
Depr Ang:	25.0°	Near Rng Dep:	54.2°	54.2°	54.2°	54.2°
Des. trk:	276.0°	Far Rng Dep:	24.1°	24.1°	24.1°	24.1°
Start Sq:	90.0°	Atten (dB):	55.0	65.0	55.0	61.0
End Sq:	90.0°	RMS Video (%FS)	21.7	13.5	16.9	19.0

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:40.39	W 68:04.74
Start:	N 46:41.68	W 68:22.07
End:	N 46:42.73	W 68:36.53
From:	N 42:36.03	W 45:45.85
To:	N 45:53.35	W 92:35.40

Main Target: CALCS
Mocomp Point:
Lat: N 46:44.29
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 800.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.0 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -.8 fps (s.d.= 1.5)
Ave Fil Vel -> .6 fps (s.d.= 1.2)

NML XMIT PWR	ANGLE BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 7660 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 8928 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 47.1			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 23:41:40
Y: -463.0	L: 63.8 dB	End: 23:44:21
Z: 6435.0	C: 63.8 dB	

Mocomp Counters

Start: 622168 000917E58h
End: 649162 000917CAh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1439

Post-line Data Sheet
Line 15
Mission: Presque Isle DAY 3

Time: 178:23:53:19
Pass 11
Req.# 8

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9862 ft s.d =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.6°	35.6°	35.6°	35.6°
Des. trk:	180.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	65.0	51.0	61.0
End Sq:	90.0°	RMS Video (%FS)	23.8	12.0	18.6	15.1

WAYPOINTS

	Latitude	Longitude
Line_up:	N 47:01.12	W 68:25.15
Start:	N 46:49.12	W 68:25.15
End:	N 46:39.12	W 68:25.15
From:	N 63:21.83	W 68:25.15
To:	N 30:02.59	W 68:25.15

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -4.7 fps (s.d.= .6)
Ave Fil Vel -> -4.7 fps (s.d.= .5)

NML XMIT PWR	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: -70.0	

Tape Footage	Drive no.
Starting: 8942 ft	(1)
Ending: 10185 ft	(1)

Vel Bias	CAN Atten
X: 1024.0	X: 63.8 dB
Y: -463.0	L: 63.8 dB
Z: 6435.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 23:53:19
End: 23:55:59

Mocomp Counters

Start: 667010 000A0D82h
End: 693841 000A0651h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1440

Post-line Data Sheet
Line 17
Mission: Presque Isle DAY 3

Time: 179:00:04:13
Pass 12
Req.# 9

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9894 ft s.d =	4 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	0.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	68.0	51.0	67.0
End Sq:	90.0°	RMS Video (%FS)	23.9	9.9	19.6	11.1

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:27.13	W 68:32.80
Start:	N 46:39.12	W 68:32.80
End:	N 46:49.12	W 68:32.80
From:	N 30:02.59	W 68:32.80
To:	N 63:21.83	W 68:32.80

Main Target: IE

Mocomp Point:

Lat: N 46:44.12

Long: W 68:28.98

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2A

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 254.9 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .7 fps (s.d.= 1.4)
Ave Fil Vel -> 1.4 fps (s.d.= 1.1)

NML XMIT PWR	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.4	

Tape Footage	Drive no.
Starting: 200 ft	(2)
Ending: 1434 ft	(2)

Vel Bias	CAN Atten
X: 1024.0	X: 63.8 dB
Y: -463.0	L: 63.8 dB
Z: 6435.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 00:04:13
End: 00:06:46

Mocomp Counters

Start: 726024 000B:408h
End: 751689 000B:849h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1440

Post-line Data Sheet
Line 19
Mission: Presque Isle DAY 3

Time: 179:00:17:57
Pass 13
Req.# 10

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9883 ft s.d = 3	Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	270.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	54.0	63.0	53.0	65.0
End Sq:	90.0°	RMS Video (%FS)	19.9	14.4	18.2	13.4

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:41.44	W 68:04.28
Start:	N 46:41.48	W 68:21.71
End:	N 46:41.48	W 68:36.25
From:	N 44:12.68	W 44:58.75
To:	N 44:12.68	W 91:59.21

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -9.5 fps (s.d.= 7.1)
Ave Fil Vel -> -7.9 fps (s.d.= 6.9)

NML XMIT PWR

	ANGLE BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.8	

Tape Footage

Drive no.

Starting: 1448 ft (2)
Ending: 2692 ft (2)

Vel Bias

X: 1024.0	CAN Atten
Y: -463.0	X: 63.8 dB
Z: 6435.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 00:17:57
End: 00:20:37

Mocomp Counters

Start: 784368 000B07F0h
End: 811200 000C60C0h

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1440

Post-line Data Sheet
Line 21
Mission: Presque Isle DAY 3

Time: 179:00:27:52
Pass 14
Req.# 11

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9875 ft s.d = 3	Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	90.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	63.0	51.0	66.0
End Sq:	90.0°	RMS Video (%FS)	23.8	11.5	17.1	11.8

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:46.70	W 68:53.71
Start:	N 46:46.74	W 68:36.25
End:	N 46:46.74	W 68:21.71
From:	N 44:17.50	W 92:01.25
To:	N 44:17.50	W 44:56.71

Main Target: IE

Mocomp Point:

Lat: N 46:44.12

Long: W 68:28.98

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.0 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.0 fps (s.d.= 4.2)
Ave Fil Vel -> 1.3 fps (s.d.= 3.9)

NML XMIT PWR

ANG BIAS

Tape Footage

Drive no.

X: -70.0	Elevation:	0.0°
L: -70.0	Azimuth:	0.0°
C: -70.0	Pitch:	0.0°
P: 46.6		

Starting:	2706 ft	(2)
Ending:	3963 ft	(2)

Vel Bias

CAN Atten

LINE Map Time (UCT)

X: 1024.0	X: 63.8 dB
Y: -463.0	L: 63.8 dB
Z: 6435.0	C: 63.8 dB

Start: 00:27:52
End: 00:30:31

Mocomp Counters

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)

Start: 835044 000C8DE4h
End: 861712 000D2610h

Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1440

Post-line Data Sheet
Line 23
Mission: Presque Isle DAY 3

Time: 179:00:39:17
Pass 15
Req.# 12

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9889 ft s.d =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18400 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16861	16861	16861	16861
Depr Ang:	25.0°	Near Rng Dep:	35.9°	35.9°	35.9°	35.9°
Des. trk:	276.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	55.0	63.0	54.0	66.0
End Sq:	90.0°	RMS Video (%FS)	18.3	13.6	17.0	18.2

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:39.86	W 68:04.82
Start:	N 46:41.15	W 68:22.15
End:	N 46:42.20	W 68:36.61
From:	N 42:35.56	W 45:46.11
To:	N 45:52.85	W 92:35.25

Main Target: CALCS
Mocomp Point:
Lat: N 46:44.29
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 800.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.6 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.6 fps (s.d.= .8)
Ave Fil Vel -> 3.9 fps (s.d.= .8)

NML XMIT PWR	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.6	

Tape Footage	Drive no.
Starting: 3976 ft	(2)
Ending: 5250 ft	(2)

Vel Bias	CAN Atten
X: 1024.0	X: 63.8 dB
Y: -463.0	L: 63.8 dB
Z: 6435.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 00:39:17
End: 00:41:59

Mocomp Counters

Start: 893597 000DA29Dh
End: 920725 000E0C95h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1440

Post-line Data Sheet
Line 25
Mission: Presque Isle DAY 3

Time: 179:00:52:00
Pass 16
Req.# 13

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9900 ft s.d =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	30.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	63.0	52.0	67.0
End Sq:	90.0°	RMS Video (%FS)	29.2	13.6	21.4	13.8

WAYPOINTS

Line_up:	N 46:30.71	W 68:44.60	Main Target:	IE
Start:	N 46:41.11	W 68:35.93	Mocomp Point:	
End:	N 46:49.77	W 68:28.66	Lat:	N 46:44.12
			Long:	W 68:28.98
From:	N 31:49.89	W 78:14.04	Tgt Trk:	0.0
To:	N 60:12.77	W 51:51.23	Tgt Vel:	0.0
			Alt:	770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi	->	10 sec
Resolution:	N/A	PRF Factor is FAST	(262.5 kts)	
Swath width:	Single	Ave Gndspd:	Real	-> 250.7 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl	1, 2, 3, 4	
Position Reference:	ON	GPS Vel/Pos Reference		
Atten. Tracking:	OFF	Adj Gnd Scene:	5000.0 ft	
Range Gate Delta:	0.0 ft	Range Tracking is	OFF	
Azimuth Presum Rate:	Presum6	Clutterlock Reference:	OFF	
TX Chirp Filename:	CTL0U2B	RX Chirp Filename:	CRL1N0A	

Ave Ref Vel -> 3.0 fps (s.d.= 9.8)
Ave Fil Vel -> 3.2 fps (s.d.= 9.3)

NML XMIT PWR	ANG BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting:	5263 ft (2)
L: -70.0	Azimuth: 0.0°	Ending:	6520 ft (2)
C: -70.0	Pitch: 0.0°		
P: 46.6			

Vel Bias	CAN Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 00:52:00
Y: -463.0	L: 63.8 dB	End: 00:54:41
Z: 6435.0	C: 63.8 dB	

Mocomp Counters

Start:	956073	000E96A9h	CPA (UCT):	00:00:00
End:	983072	000F0020h	Alt:	0 ft (GPS)
			Lat:	N 0:00: 0
			Lon:	E 0:00: 0

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Tape: E1440

Post-line Data Sheet
Line 27
Mission: Presque Isle DAY 3

Time: 179:01:02:43
Pass 17
Req.# 14

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9876 ft s.d =	4 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	210.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	60.0	52.0	60.0
End Sq:	90.0°	RMS Video (%FS)	26.3	14.7	17.9	18.0

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:57.51	W 68:13.24
Start:	N 46:47.13	W 68:22.02
End:	N 46:38.47	W 68:29.28
From:	N 60:10.02	W 51:45.39
To:	N 31:47.42	W 78:07.50

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 253.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .3 fps (s.d.= 1.1)
Ave Fil Vel -> 3.8 fps (s.d.= 1.1)

NML XMIT PWR	ANGLE BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.5	

Tape Footage	Drive no.
Starting: 6533 ft	(2)
Ending: 7794 ft	(2)

Vel Bias	CAN Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:02:43
End: 01:05:23

Mocomp Counters

Start: 1010451 000F0B13h
End: 1037274 000F03DAh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1440

Post-line Data Sheet
Line 25
Mission: Presque Isle DAY 3

Time: 179:01:13:19
Pass 18
Req.# 13

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9902 ft s.d =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	30.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	67.0	52.0	66.0
End Sq:	90.0°	RMS Video (%FS)	22.2	12.8	18.7	13.7

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:30.71	W 68:44.60
Start:	N 46:41.11	W 68:35.93
End:	N 46:49.77	W 68:28.66
From:	N 31:49.89	W 78:14.04
To:	N 60:12.77	W 51:51.23

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 248.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 4.7 fps (s.d.= 3.6)
Ave Fil Vel -> 8.6 fps (s.d.= 3.4)

NML XMIT PWR

	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.5	

Tape Footage

Drive no.

Starting:	7808 ft	(2)
Ending:	9083 ft	(2)

Vel Bias

X: 2079.0	CAN Atten
Y: 1867.0	X: 63.8 dB
Z: 17142.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 01:13:19
End: 01:16:01

Mocomp Counters

Start:	1066285	0010452Dh
End:	1093454	00104F4Eh

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1440

Post-line Data Sheet
Line 29
Mission: Presque Isle DAY 3

Time: 179:01:26:37
Pass 19
Req.# 15

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9886 ft s.d =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	120.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	59.0	51.0	60.0
End Sq:	90.0°	RMS Video (%FS)	25.6	25.7	20.4	26.1

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:54.86	W 68:48.54
Start:	N 46:48.89	W 68:33.37
End:	N 46:43.89	W 68:20.78
From:	N 52:47.33	W 92:35.12
To:	N 36:51.34	W 50:24.96

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 248.4 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.5 fps (s.d.= .9)
Ave Fil Vel -> 2.5 fps (s.d.= .9)

NML XMIT PWR

	ANAL BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.5	

Tape Footage

Drive no.

Starting: 9097 ft (2)
Ending: 10356 ft (2)

Vel Bias

X: 2079.0	CAL Atten
Y: 1867.0	X: 63.8 dB
Z: 17142.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 01:26:37
End: 01:29:21

Mocomp Counters

Start: 1131299 0011:323h
End: 1158804 0011:594h

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: 1441

Post-line Data Sheet
Line 31
Mission: Presque Isle DAY 3

Time: 179:01:36:25
Pass 20
Req.# 16

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9900 ft s.d =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	300.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	57.0	61.0	57.0	64.0
End Sq:	90.0°	RMS Video (%FS)	22.3	18.2	19.9	15.8

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:33.32	W 68:09.55
Start:	N 46:39.35	W 68:24.60
End:	N 46:44.34	W 68:37.19
From:	N 36:47.45	W 50:29.32
To:	N 52:42.60	W 92:36.70

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 252.0 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -2.6 fps (s.d.= 3.4)
Ave Fil Vel -> 1.1 fps (s.d.= 2.9)

NML XMIT PWR	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.6	

Tape Footage	Drive no.
Starting: 203 ft	(1)
Ending: 1460 ft	(1)

Vel Bias	CAN Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:36:25
End: 01:39:06

Mocomp Counters

Start: 1180490 0012034Ah
End: 1207494 0012066Ch

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: 1441

Post-line Data Sheet
Line 33
Mission: Presque Isle DAY 3

Time: 179:01:49:45
Pass 21
Req.# 17

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9900 ft s.d =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	60.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	53.0	63.0	53.0	66.0
End Sq:	90.0°	RMS Video (%FS)	23.4	15.0	17.5	14.0

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:37.87	W 68:52.25
Start:	N 46:43.90	W 68:37.18
End:	N 46:48.90	W 68:24.59
From:	N 36:51.35	W 86:33.02
To:	N 52:47.34	W 44:22.84

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 247.2 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 3.3 fps (s.d.= 7.2)
Ave Fil Vel -> 7.5 fps (s.d.= 6.8)

NML XMIT PWR	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.5	

Tape Footage	Drive no.
Starting: 1476 ft	(1)
Ending: 2683 ft	(1)

Vel Bias	CAN Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:49:45
End: 01:52:25

Mocomp Counters

Start: 1252216 0013:078h
End: 1279011 0013:423h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 35
Mission: Presque Isle DAY 3

Time: 179:02:01:48
Pass 22
Req.# 18

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9889 ft s.d =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	240.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	61.0	49.0	66.0
End Sq:	90.0°	RMS Video (%FS)	27.9	15.9	26.1	15.7

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:50.30	W 68:05.61
Start:	N 46:44.33	W 68:20.76
End:	N 46:39.33	W 68:33.35
From:	N 52:42.59	W 44:21.25
To:	N 36:47.44	W 86:28.63

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 255.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -2.6 fps (s.d.= 11.2)
Ave Fil Vel -> .8 fps (s.d.= 10.7)

NML XMIT PWR

	ANGLE BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.6	

Tape Footage

Drive no.

Starting:	2697 ft	(1)
Ending:	3902 ft	(1)

Vel Bias

X: 2079.0	CAL Atten
Y: 1867.0	X: 63.8 dB
Z: 17142.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 02:01:48
End: 02:04:22

Mocomp Counters

Start: 1315361 0014:221h
End: 1341200 0014:710h

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 31
Mission: Presque Isle DAY 3

Time: 179:02:16:28
Pass 23
Req.# 16

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9903 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	300.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	55.0	60.0	54.0	65.0
End Sq:	90.0°	RMS Video (%FS)	23.3	15.8	21.9	12.4

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:33.32	W 68:09.55
Start:	N 46:39.35	W 68:24.60
End:	N 46:44.34	W 68:37.19
From:	N 36:47.45	W 50:29.32
To:	N 52:42.60	W 92:36.70

Main Target: IE

Mocomp Point:

Lat: N 46:44.12

Long: W 68:28.98

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 247.4 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 5.3 fps (s.d.= 9.6)
Ave Fil Vel -> 8.9 fps (s.d.= 9.0)

NML XMIT PWR	ANGLE BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.7	

Tape Footage	Drive no.
Starting: 3918 ft	(1)
Ending: 5121 ft	(1)

Vel Bias	CAL Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 02:16:28
End: 02:19:09

Mocomp Counters

Start: 1366879 00140B5Fh
End: 1393891 001544E3h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 41
Mission: Presque Isle DAY 3

Time: 179:02:38:13
Pass 24
Req.# 22

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5940 ft s.d = 3	Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	180.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	48.0	55.0	48.0	57.0
End Sq:	90.0°	RMS Video (%FS)	25.4	14.6	18.5	19.0

WAYPOINTS

	Latitude	Longitude
Line up:	N 47:01.12	W 68:24.31
Start:	N 46:49.12	W 68:24.31
End:	N 46:39.12	W 68:24.31
From:	N 63:21.83	W 68:24.31
To:	N 30:02.59	W 68:24.31

Main Target: IE

Mocomp Point:

Lat: N 46:44.12

Long: W 68:28.98

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.2 fps (s.d.= 6.4)
Ave Fil Vel -> .6 fps (s.d.= 6.0)

NML XMIT PWR

X: -70.0	Elevation:	0.0°
L: -70.0	Azimuth:	0.0°
C: -70.0	Pitch:	0.0°
P: 46.5		

Tape Footage

Drive no.

Starting:	5136 ft	(1)
Ending:	6402 ft	(1)

Vel Bias

X: 2079.0	CAL Atten
Y: 1867.0	X: 63.8 dB
Z: 17142.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 02:38:13
End: 02:40:53

Mocomp Counters

Start:	1449751	001687F1h
End:	1476593	001687F1h

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: 1441

Post-line Data Sheet
Line 43
Mission: Presque Isle DAY 3

Time: 179:02:48:11
Pass 25
Req.# 23

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5950 ft s.d. =	2 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	0.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	53.0	73.0	54.0	73.0
End Sq:	90.0°	RMS Video (%FS)	17.7	6.1	12.2	5.6

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:27.13	W 68:33.65
Start:	N 46:39.12	W 68:33.65
End:	N 46:49.12	W 68:33.65
From:	N 30:02.59	W 68:33.65
To:	N 63:21.83	W 68:33.65

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -0.0 fps (s.d.= .9)
Ave Fil Vel -> 1.5 fps (s.d.= .8)

NML XMIT PWR	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.4	

Tape Footage	Drive no.
Starting: 6417 ft	(1)
Ending: 7650 ft	(1)

Vel Bias	CAL Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 02:48:11
End: 02:50:47

Mocomp Counters

Start: 1501772 00161A4Ch
End: 1504441 00161A4B9h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: 1441

Post-line Data Sheet
Line 43
Mission: Presque Isle DAY 3

Time: 179:02:48:26
Pass 26
Req.# 23

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5949 ft s.d =	2 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	0.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	53.0	70.0	54.0	70.0
End Sq:	90.0°	RMS Video (%FS)	15.3	6.0	10.8	6.3

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:27.13	W 68:33.65
Start:	N 46:39.12	W 68:33.65
End:	N 46:49.12	W 68:33.65
From:	N 30:02.59	W 68:33.65
To:	N 63:21.83	W 68:33.65

Main Target: IE
Mocomp Point:
Lat: N 46:44.12
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 3.0 fps (s.d.= .9)
Ave Fil Vel -> 4.7 fps (s.d.= .9)

NML XMIT PWR	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.4	

Tape Footage	Drive no.
Starting: 6417 ft	(1)
Ending: 7650 ft	(1)

Vel Bias	CAL Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 02:48:26
End: 02:50:47

Mocomp Counters

Start: 1504441 001604B9h
End: 1527940 00175084h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: 1441

Post-line Data Sheet
Line 45
Mission: Presque Isle DAY 3

Time: 179:03:02:38
Pass 27
Req.# 24

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5957 ft s.d = 3	Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	270.0°	Far Rng Dep:	9.9°	9.9°	9.9°	9.9°
Start Sq:	90.0°	Atten (dB):	58.0	62.0	58.0	62.0
End Sq:	90.0°	RMS Video (%FS)	9.8	9.4	7.7	10.6

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:40.86	W 68:04.28
Start:	N 46:40.90	W 68:21.71
End:	N 46:40.90	W 68:36.25
From:	N 44:12.15	W 44:58.97
To:	N 44:12.15	W 91:58.99

Main Target: IE

Mocomp Point:

Lat: N 46:44.12

Long: W 68:28.98

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.2 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.8 fps (s.d.= .9)
Ave Fil Vel -> -.4 fps (s.d.= .7)

NML XMIT PWR

	ANAL BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.2	

Tape Footage

Drive no.

Starting:	7665 ft	(1)
Ending:	8917 ft	(1)

Vel Bias

X: 2079.0	CAL Atten
Y: 1867.0	X: 63.8 dB
Z: 17142.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 03:02:38
End: 03:05:17

Mocomp Counters

Start:	1564287	0017DE7Fh
End:	1590796	0018460Ch

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: 1441

Post-line Data Sheet
Line 47
Mission: Presque Isle DAY 3

Time: 179:03:13:11
Pass 28
Req.# 25

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5947 ft s.d =	2 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	90.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	48.0	61.0	47.0	61.0
End Sq:	90.0°	RMS Video (%FS)	27.0	17.2	20.1	18.1

WAYPOINTS

	Latitude	Longitude
Line up:	N 46:47.28	W 68:53.71
Start:	N 46:47.33	W 68:36.25
End:	N 46:47.33	W 68:21.71
From:	N 44:18.04	W 92:01.47
To:	N 44:18.04	W 44:56.49

Main Target: IE

Mocomp Point:

Lat: N 46:44.12

Long: W 68:28.98

Tgt Trk: 0.0 Tgt Vel: 0.0

Alt: 770.0 ft

RADAR PARAMETERS - for UVB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.6 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.9 fps (s.d.= 8.6)
Ave Fil Vel -> 4.9 fps (s.d.= 8.3)

NML XMIT PWR	ANGLE BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.1	

Tape Footage	Drive no.
Starting: 8931 ft	(1)
Ending: 10190 ft	(1)

Vel Bias	CAL Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 03:13:11
End: 03:15:51

Mocomp Counters

Start: 1616643 0018AB03h
End: 1643480 0019.3D8h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

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Tape: E1442

Post-line Data Sheet
Line 49
Mission: Presque Isle DAY 3

Time: 179:03:24:16
Pass 29
Req.# 26

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5961 ft s.d. = 3	Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20091 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18556	18556	18556	18556
Depr Ang:	25.0°	Near Rng Dep:	18.7°	18.7°	18.7°	18.7°
Des. trk:	276.0°	Far Rng Dep:	9.9°	9.9°	9.9°	9.9°
Start Sq:	90.0°	Atten (dB):	60.0	63.0	60.0	63.0
End Sq:	90.0°	RMS Video (%FS)	7.1	8.8	5.4	9.6

WAYPOINTS

	Latitude	Longitude
Line_up:	N 46:39.29	W 68:04.91
Start:	N 46:40.59	W 68:22.23
End:	N 46:41.63	W 68:36.69
From:	N 42:35.05	W 45:46.39
To:	N 45:52.31	W 92:35.10

Main Target: CALCS
Mocomp Point:
Lat: N 46:44.29
Long: W 68:28.98
Tgt Trk: 0.0 Tgt Vel: 0.0
Alt: 800.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.2 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.2 fps (s.d.= 4.3)
Ave Fil Vel -> 3.5 fps (s.d.= 4.1)

NML XMIT PWR

	ANG BIAS
X: -70.0	Elevation: 0.0°
L: -70.0	Azimuth: 0.0°
C: -70.0	Pitch: 0.0°
P: 46.0	

Tape Footage

Drive no.

Starting: 200 ft (2)
Ending: 1446 ft (2)

Vel Bias

X: 2079.0	CAL Atten
Y: 1867.0	X: 63.8 dB
Z: 17142.0	L: 63.8 dB
	C: 63.8 dB

LINE Map Time (UCT)

Start: 03:24:16
End: 03:26:58

Mocomp Counters

Start: 1670511 0019:06Fh
End: 1697661 0019:77Dh

CPA (UCT): 00:00:00

Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0